FIG. 1
CONVENTIONAL ART

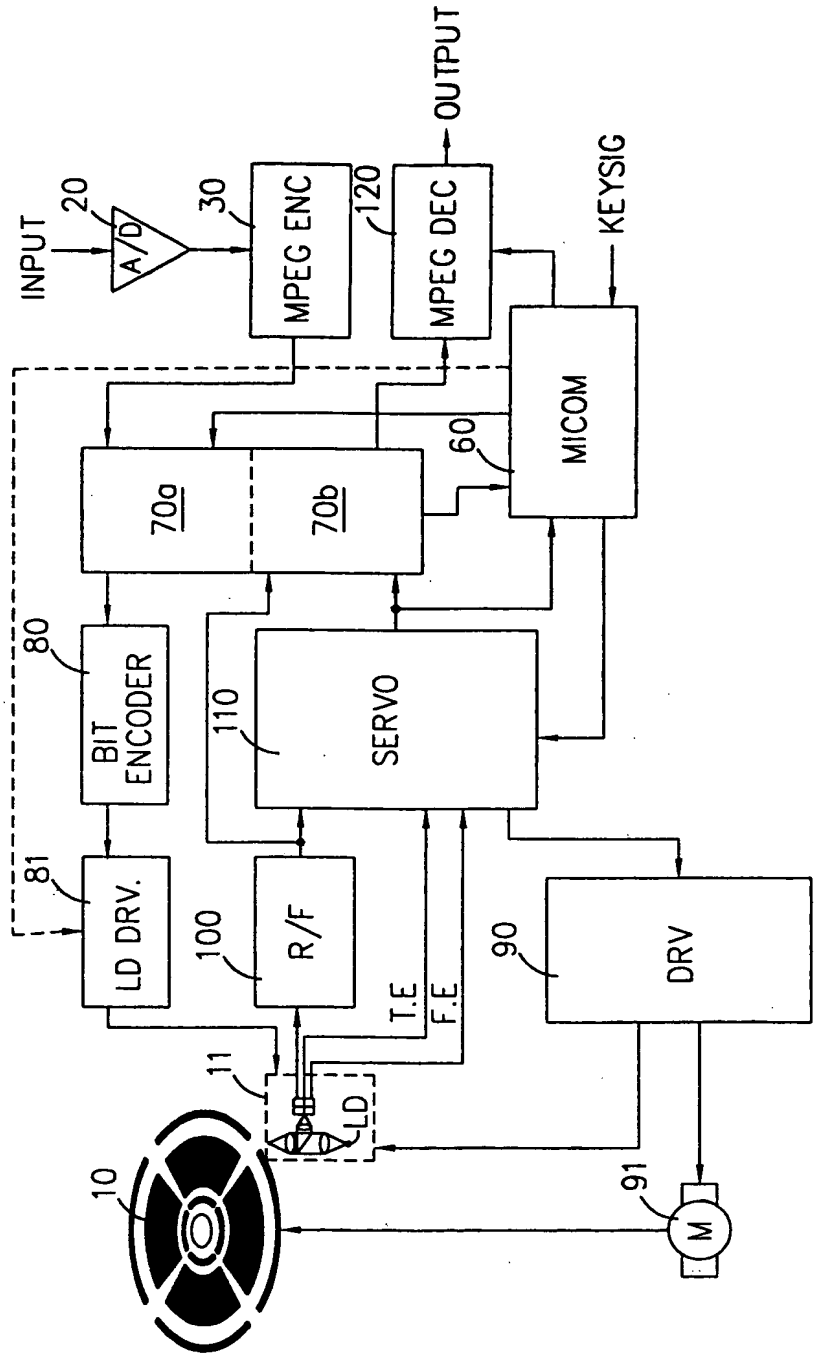
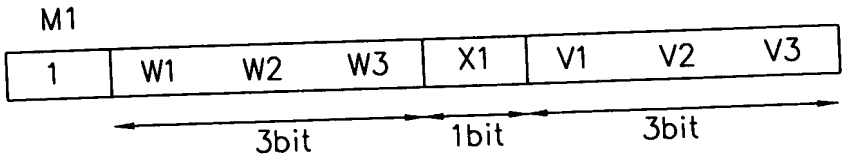


FIG. 2
CONVENTIONAL ART



W1,W2,W3 =000 ---→ P_{ind} =5mw
=001 ---→ P_{ind} =6mw
=010 ---→ P_{ind} =7mw
=011 ---→ P_{ind} =8mw
=100 ---→ P_{ind} =9mw
=101 ---→ P_{ind} =10mw
=110 ---→ P_{ind} =11mw
=111 ---→ P_{ind} =12mw

FIG. 3
CONVENTIONAL ART

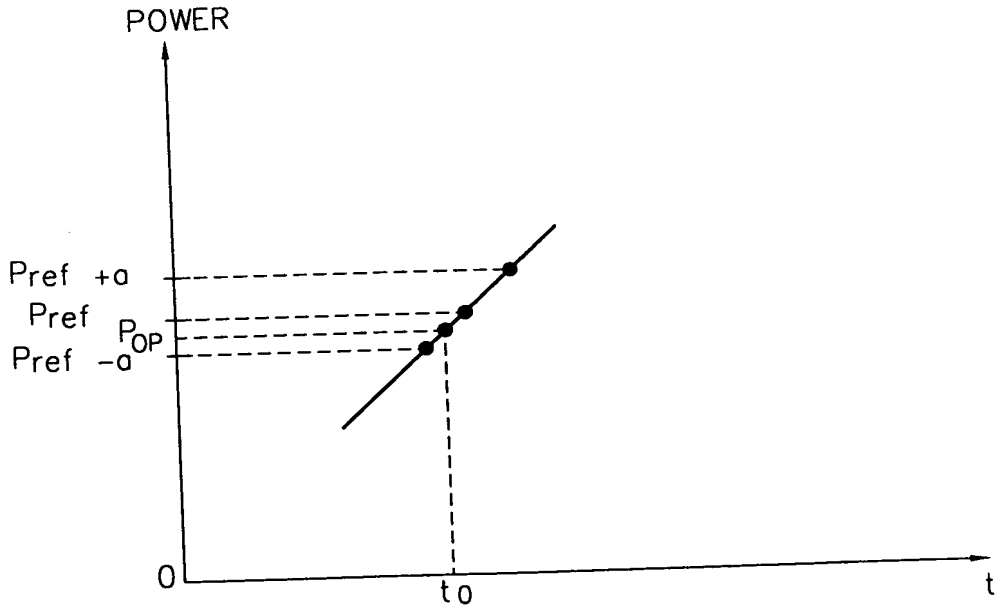


FIG. 4A
CONVENTIONAL ART

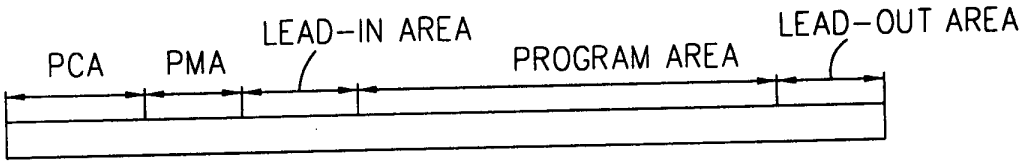


FIG. 4B
CONVENTIONAL ART

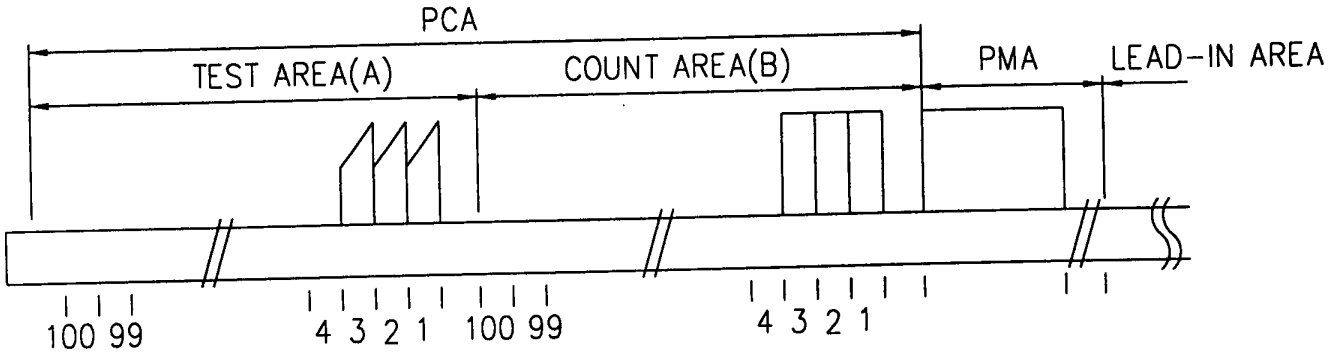


FIG. 5

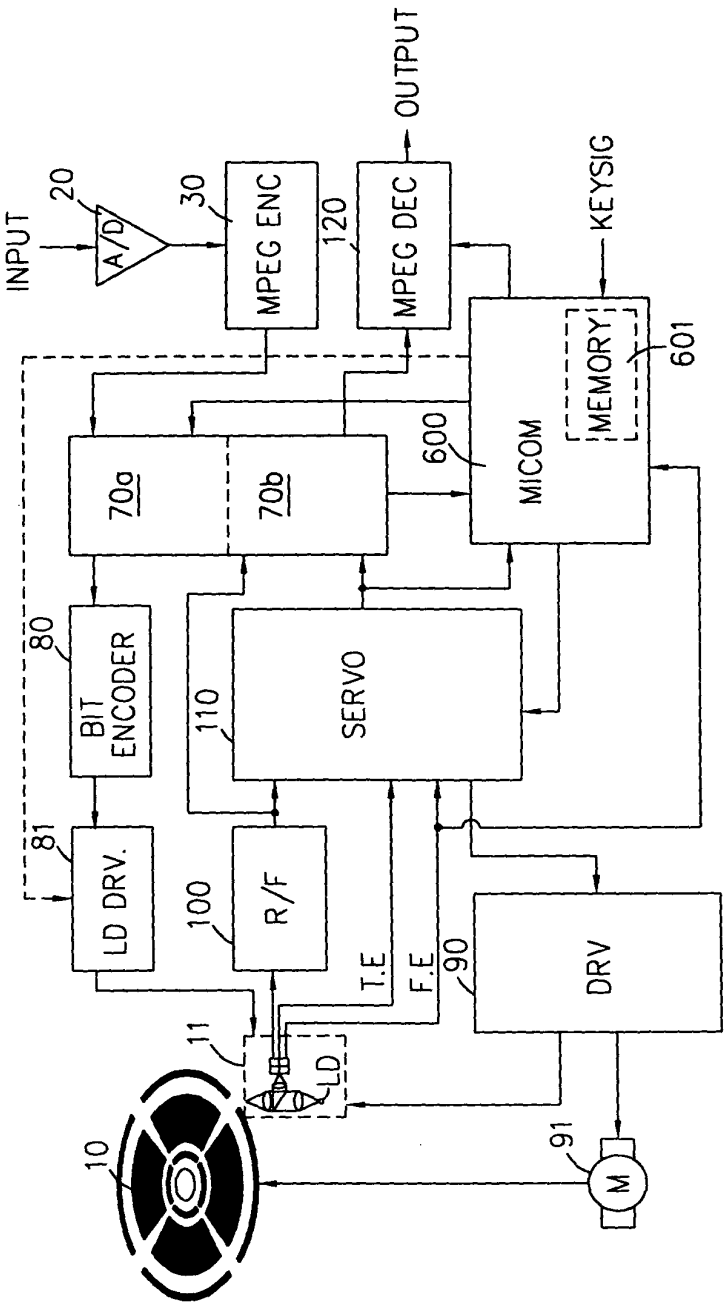

INPUT
20
A/D
30
MPEG ENC
120
MPEG DEC
OUTPUT
KEYSIG
MEMORY
601
MICOM
600
70a
70b
80
BIT ENCODER
110
SERVO
81
LD DRV.
100
R/F
T.E
F.E
90
DRV
11
LD
10
91
M

FIG. 6

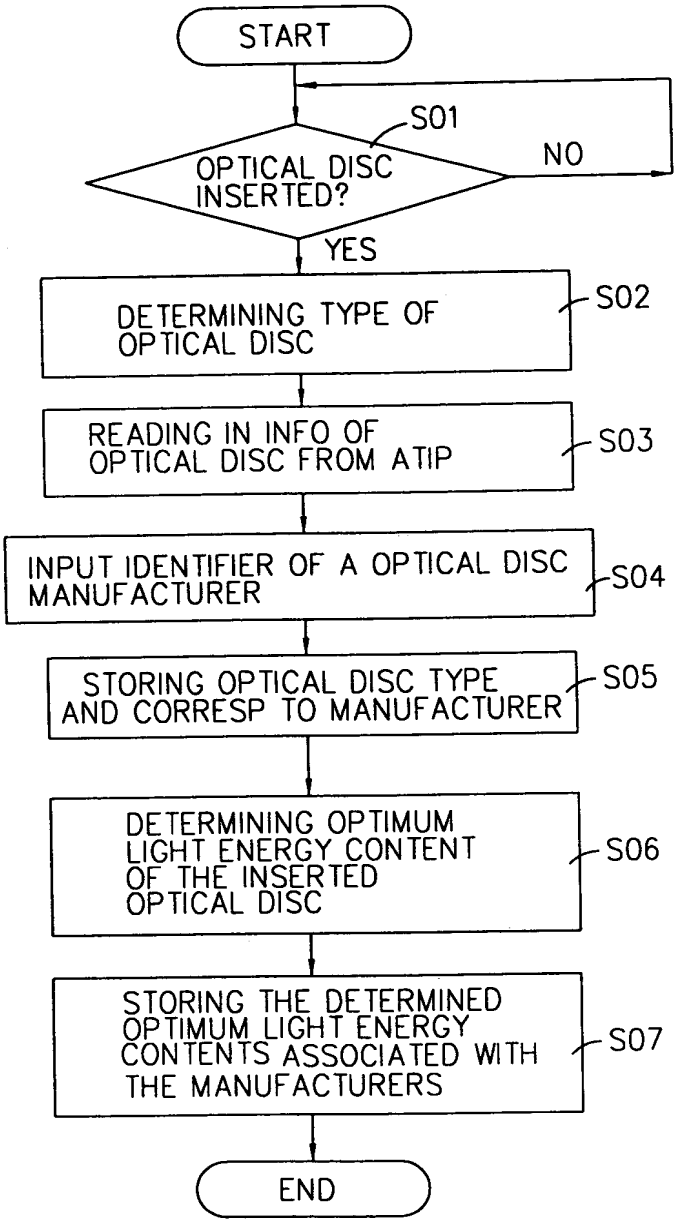

START
S01
OPTICAL DISC INSERTED?
NO
YES
DETERMINING TYPE OF OPTICAL DISC
S02
READING IN INFO OF OPTICAL DISC FROM ATIP
S03
INPUT IDENTIFIER OF A OPTICAL DISC MANUFACTURER
S04
STORING OPTICAL DISC TYPE AND CORRESP TO MANUFACTURER
S05
DETERMINING OPTIMUM LIGHT ENERGY CONTENT OF THE INSERTED OPTICAL DISC
S06
STORING THE DETERMINED OPTIMUM LIGHT ENERGY CONTENTS ASSOCIATED WITH THE MANUFACTURERS
S07
END

FIG. 7

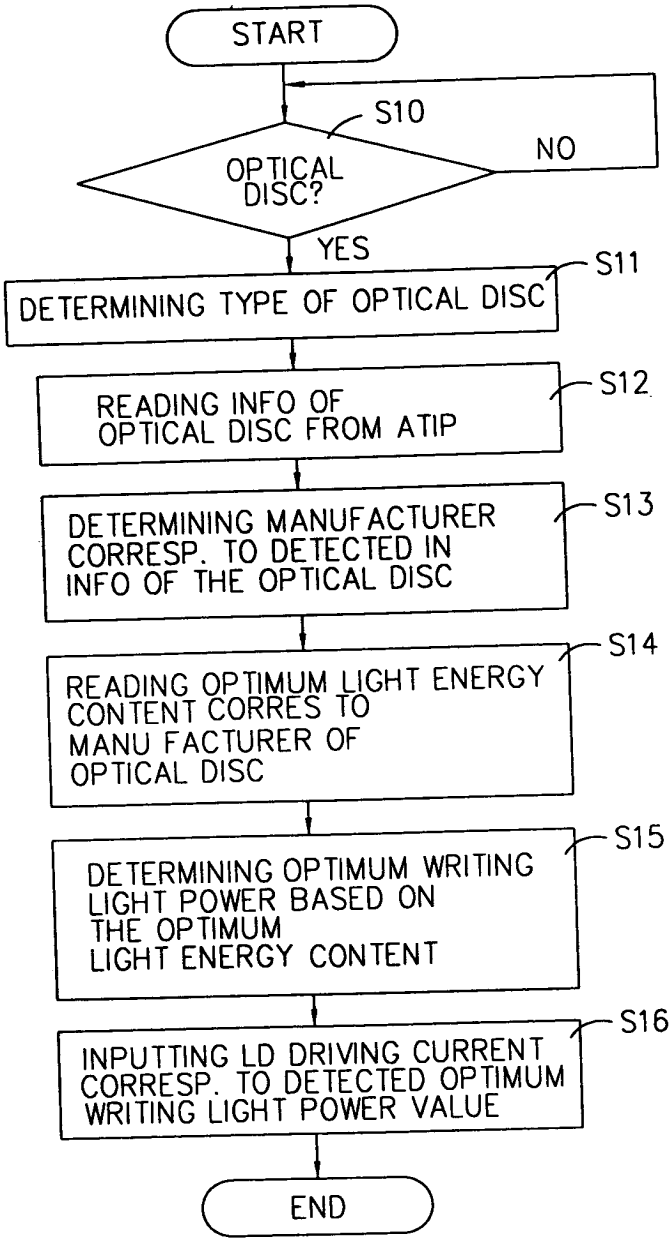
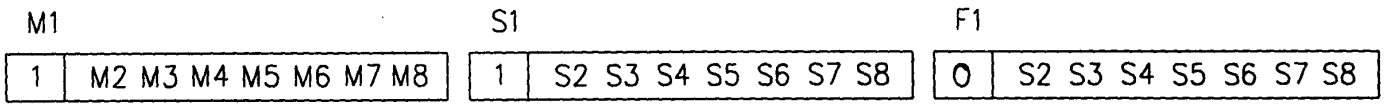
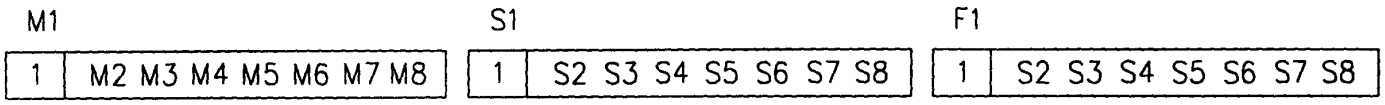

START
S10
OPTICAL DISC?
NO
YES
S11
DETERMINING TYPE OF OPTICAL DISC
S12
READING INFO OF OPTICAL DISC FROM ATIP
S13
DETERMINING MANUFACTURER CORRESP. TO DETECTED IN INFO OF THE OPTICAL DISC
S14
READING OPTIMUM LIGHT ENERGY CONTENT CORRES TO MANU FACTURER OF OPTICAL DISC
S15
DETERMINING OPTIMUM WRITING LIGHT POWER BASED ON THE OPTIMUM LIGHT ENERGY CONTENT
S16
INPUTTING LD DRIVING CURRENT CORRESP. TO DETECTED OPTIMUM WRITING LIGHT POWER VALUE
END

FIG. 8A



EXAMPLE1. : M1M2...M8 S1S2...S8 F1F2...F8 = 10010111 01001001 00000000
= 97 : 49 : 00

FIG. 8B



EXAMPLE2. : M1M2...M8 S1S2...S8 F1F2...F8 = 01110000 01000101 00010101
= 70 : 45 : 15